

5129 N. Shirley St. Suite 100 | Ruston, WA 98407

September 15, 2009

Mr. Kevin L. Rochlin Remedial Project Manager U.S. Environmental Protection Agency Region 10 1200 Sixth Avenue, ECL-111 Seattle, WA 98101

RE: Monthly Report: No. 159, August 2009

Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me.

Sincerely,

Eric Pilcher, P.E. Project Coordinator

L: 2/2-

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology

Evan Griffiths - CH2MHill (2 copies)

Leslie Ann Rose - Citizens for a Healthy Bay

Karen Pickett - ASARCO

- A. Actions taken to achieve compliance with the Consent Decree during the previous month.
  - 1. Met with EPA on August 7th and August 21st.
  - 2. Continued weekly site-maintenance logs (see attached).
  - 3. Maintained clean work area and road.
  - 4. Remedial Action activities continued.
  - 5. Training activities include the following:
    - Site specific Safety Orientation was held for:
      - i. (1) City of Tacoma parcel inspector
      - ii. (5) NW Utilities employees
      - iii. (2) City Electric employees
      - iv. (1) L&I inspector
      - v. (1) Burlington Northern environmental consultant
      - vi. (1) Ferguson employee
      - vii. (1) Allianz employee
- B. Summary of sampling, tests, and all other data received or generated by Point Ruston in the previous month.
  - 1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003 which Point Ruston will continue to implement: weekly composite samples will be collected from May-October, and in December, February, and April.

Samples were collected by Point Ruston on August 10<sup>th</sup>, 17<sup>th</sup>, 24<sup>th</sup> and 31<sup>st</sup>. Please note that a break in the sample tubing at the North Outfall prevented collection at that outfall from August 3<sup>rd</sup> through August 9<sup>th</sup>. The tubing has since been repaired. Results from samples collected are attached. There were no exceedances.

- 2. Point Ruston collects OCF leachate in a 5,000 gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 126 gallons per day on the LCRS (see attached correspondence and data). 4800 gallons of leachate were shipped on August 18<sup>th</sup>. A sample was collected on August 3<sup>rd</sup>. Results from the sample are attached (5.2 ppm).
- 3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), South Gate. Air monitoring began on April 10<sup>th</sup>, 2008. Results for samples collected from July 27<sup>th</sup> through August 21<sup>st</sup> are attached. There was an exceedance of 0.23 ppm at the South Gate on July 28<sup>th</sup>. EPA was notified under a separate letter on August 19<sup>th</sup>. A copy of the letter is attached. Air monitoring results are also transmitted electronically to EPA for posting on the Region 10 website.
- 4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on August 19<sup>th</sup> during grading activities. Results for samples collected are attached. There were no exceedances.
- C. Work Plans and other deliverables completed and submitted during the previous month.
  - 1. Plans and Documents included the following:
    - Point Ruston submitted a draft submittal of the Upland OMMP to EPA on August 7<sup>th</sup>.
    - Point Ruston submitted revised infrastructure specifications to Tacoma on August 20<sup>th</sup>. Upon finalization of infrastructure specs, they will supersede those presently included in Appendix C of the General CMP.
  - 2. Remedial Action included the following tasks:
    - OCF construction activities:
      - > Maintained leachate collection system.
    - Stack Hill construction activities:
      - ➤ Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area
      - Continued home construction
      - Maintained site perimeter fence and signage at the north end of Stack Hill.

- Site-wide remediation/redevelopment activities:
  - > Continued surface water controls
  - Maintained haul roads and stockpiles onsite
  - Maintained erosion and surface water controls
  - Continued earthwork to perform pre-load for the proposed Ruston Way alignment over the paleochannel
- D. Actions scheduled for the next six weeks.
  - 1. Perform additional soil testing in Ruston Way right-of-way.
  - Address any new or remaining comments on CMP Master Infrastructure and Stack Hill Face
  - 3. Address comments to be received on the Upland OMMP
  - 4. Submit Revision 5 of the Construction Health and Safety Plan together with an updated Spanish translation
  - 5. Submit a Sequencing of Development and Occupancy and Temporary Cap Plan
  - 6. Submit Point Ruston CC&Rs
  - 7. Consolidate PA documents as relevant to current RA plan
  - 8. Meet with Tacoma Metro Parks to discuss the RA for the slag peninsula
  - 9. The following Remedial Action tasks are planned to continue:

### **RA Monitoring:**

- Outfall sampling (weekly composite samples) during scheduled months
- Air monitoring during remedial action activities

### **OCF OMMP activities:**

- Continue collection of leachate for offsite disposal
- Continue monitoring of leachate volumes

### Stack Hill construction activities:

- Erosion controls and site maintenance
- Continue home construction
- Begin face cap installation

### Site-wide construction activities:

- Continue surface water controls
- Maintain roads and stockpiles onsite
- Maintain erosion controls
- Construction activities for mass grading and Master Infrastructure
- Monitoring settling of Ruston Way alignment over the paleochannel
- Complete OCF Transformer & Vault relocation
- E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.
  - Point Ruston is continuing to work with the City of Tacoma & Town of Ruston to secure permits associated with the Master Infrastructure CMP. Revisions to the storm and sanitary sewer plans, and Project Specifications were submitted to Tacoma & Ruston during the month of August.
  - 2. Point Ruston is coordinating with BNSF and Domestic Realty to secure grade, fill, access and utility easements upon property adjacent to Ruston Way.
  - 3. Shoreline Substantial Development Permits (Tacoma and Ruston) and Conditional Use Permit (Ruston) have been approved in both municipalities.
    - a. An appeal has been filed to the Shoreline Hearing Board.
    - A Request for Reconsideration was filed to the Shoreline Hearing Board.
  - Dock Removal: Point Ruston, through its consultant, Parametrix, is continuing with Endangered Species Act consultation with U.S. Fish and Wildlife Service and National Marine Fisheries Service.
- F. Modifications to work plans or schedules proposed to or approved by EPA.
  - 1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
- G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.
  - Point Ruston attends the Town of Ruston's Town Council meetings routinely to answer question or give briefings regarding the status of RA and development planning activities (1<sup>st</sup> and 3<sup>rd</sup> Monday of each month).

- 2. Point Ruston is working with the City of Tacoma on development plans which incorporate remediation components for the site.
- Point Ruston is working with MetroParks to incorporate the capping component into the Peninsula Park design, and is in talks to establish a Memorandum of Agreement to engage in design consultation for this site.
- 4. Point Ruston will meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.

Table 1. Summary of August 2009 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.052	10.45%	0.005	1.00%	0.005	1.00%
North Outfall	0.015	2.93%	0.003	0.67%	0.000	0.00%

<sup>\* 0.5</sup> ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.



RECEIVED

SEP 1 0 2009

BY:

Point Ruston LLC Tim Rusher 5219 N Shirley St Ste 100 Tacoma WA 98407

\*\* REPORT \*\*



### ANALYTICAL SUMMARY REPORT

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SEP 1 0 2009

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September 04, 2009

Tim Rusher
Point Ruston LLC
5219 N Shirley St Ste 100
Tacoma, WA 98407

Workorder No.: B09090107

Project Name: Taco

Tacoma Smelter Outfall Samples

Energy Laboratories Inc received the following 7 samples for Point Ruston LLC on 9/1/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B09090107-001	South TSM0809110	08/10/09 10:27	09/01/09	Aqueous	Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2
B09090107-002	North TSM0809417	08/17/09 9:16	09/01/09	Aqueous	Same As Above
B09090107-003	South TSM0809117	08/17/09 9:44	09/01/09	Aqueous	Same As Above
B09090107-004	North TSM0809424	08/24/09 7:45	09/01/09	Aqueous	Same As Above
B09090107-005	South TSM0809124	08/24/09 8:00	09/01/09	Aqueous	Same As Above
B09090107-006	North TSM0809431	08/31/09 9:39	09/01/09	Aqueous	Same As Above
B09090107-007	South TSM0809131	08/31/09 10:21	09/01/09	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these tests results, please call.

Report Approved By:



Client:

Point Ruston LLC

Project: Lab ID: Tacoma Smelter Outfall Samples

B09090107-001

Client Sample ID: South TSM0809110

Report Date: 09/04/09

Collection Date: 08/10/09 10:27

DateReceived: 09/01/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.049	mg/L		0.005		E200.8	09/03/09 03:56 / jjw
Copper	ND	mg/L		0.01		E200.8	09/03/09 03:56 / jjw
Zinc	ND	mg/L		0.01		E200.8	09/03/09 03:56 / jjw



Client:

Point Ruston LLC

Project:

Tacoma Smelter Outfall Samples

Lab ID:

B09090107-002

Client Sample ID: North TSM0809417

Report Date: 09/04/09

Collection Date: 08/17/09 09:16

DateReceived: 09/01/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.016	mg/L		0.005		E200.8	09/03/09 04:00 / jjw
Copper	0.01	mg/L		0.01		E200.8	09/03/09 04:00 / jjw
Zinc	ND	mg/L		0.01		E200.8	09/03/09 04:00 / jjw



Client:

Point Ruston LLC

Project:

Tacoma Smelter Outfall Samples

Lab ID:

B09090107-003

Client Sample ID: South TSM0809117

Report Date: 09/04/09

Collection Date: 08/17/09 09:44

DateReceived: 09/01/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.046	mg/L	C	0.005		E200.8	09/03/09 04:04 / jjw
Copper	ND	mg/L		0.01		E200.8	09/03/09 04:04 / jjw
Zinc	ND	mg/L		0.01		E200.8	09/03/09 04:04 / jjw



Client:

Point Ruston LLC

Project:

Tacoma Smelter Outfall Samples

Lab ID:

B09090107-004

Client Sample ID: North TSM0809424

Report Date: 09/04/09

Collection Date: 08/24/09 07:45

DateReceived: 09/01/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.014	mg/L		0.005		E200.8	09/03/09 04:08 / jjw
Copper	ND	mg/L		0.01		E200.8	09/03/09 04:08 / jjw
Zinc	ND	mg/L		0.01		E200.8	09/03/09 04:08 / jjw



Client:

Point Ruston LLC

Project: Lab ID: Tacoma Smelter Outfall Samples

B09090107-005

Client Sample ID: South TSM0809124

Report Date: 09/04/09

Collection Date: 08/24/09 08:00

DateReceived: 09/01/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.060	mg/L		0.005		E200.8	09/03/09 15:48 / jjw
Copper	0.01	mg/L		0.01		E200.8	09/03/09 15:48 / jjw
Zinc	0.01	mg/L		0.01		E200.8	09/03/09 15:48 / jjw



Client:

Point Ruston LLC

Project:

Tacoma Smelter Outfall Samples

Lab ID:

B09090107-006

Client Sample ID: North TSM0809431

Report Date: 09/04/09

Collection Date: 08/31/09 09:39

DateReceived: 09/01/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.014	mg/L		0.005		E200.8	09/03/09 04:12 / jjw
Copper	ND	mg/L		0.01		E200.8	09/03/09 04:12 / jjw
Zinc	ND	mg/L		0.01		E200.8	09/03/09 04:12 / jjw



Client:

Point Ruston LLC

Project:

Tacoma Smelter Outfall Samples

Lab ID:

B09090107-007

Client Sample ID: South TSM0809131

Report Date: 09/04/09

Collection Date: 08/31/09 10:21

DateReceived: 09/01/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.054	mg/L	(	0.005		E200.8	09/03/09 04:17 / jjw
Copper	0.01	mg/L		0.01		E200.8	09/03/09 04:17 / jjw
Zinc	0.01	mg/L		0.01		E200.8	09/03/09 04:17 / jjw



### **QA/QC Summary Report**

Point Ruston LLC Client:

Report Date: 09/04/09

Project: Tacoma Smelter Outfall Samples

Work Order: B09090107

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8								Bat	ch: 41161
Sample ID:	MB-41161	Method Blank				Run: ICPM	S202-B_090902A		09/02	2/09 13:44
Arsenic		ND	mg/L	0.0002						
Copper		ND	mg/L	0.0001						
Zinc		0.001	mg/L	0.0005						
Sample ID:	LCS5-41161	Laboratory Cor	ntrol Sample			Run: ICPM	S202-B_090902A	<b>\</b>	09/0	2/09 13:48
Arsenic		0.547	mg/L	0.0050	109	85	115			
Copper		0.494	mg/L	0.010	99	85	115			
Zinc		0.521	mg/L	0.010	104	85	115			
Sample ID:	B09090058-001EMS5	Sample Matrix	Spike			Run: ICPM	S202-B_090902A	١	09/0	2/09 14:20
Arsenic		0.549	mg/L	0.0050	109	70	130			
Copper		0.493	mg/L	0.010	99	70	130			
Zinc		0.523	mg/L	0.010	104	70	130			
Sample ID:	B09090058-001EMSD5	Sample Matrix	Spike Duplicate			Run: ICPM	S202-B_090902A	A	09/0	2/09 14:23
Arsenic		0.535	mg/L	0.0050	107	70	130	2.6	20	
Copper		0.476	mg/L	0.010	95	70	130	3.6	20	
Zinc		0.506	mg/L	0.010	101	70	130	3.3	20	
Method:	E200.8						Analytical	Run:	ICPMS202-B	_090902A
Sample ID:	QCS - 090602A,090609B,	Initial Calibration	on Verification S	tandard					09/0	2/09 22:50
Arsenic		0.0494	mg/L	0.0050	99	90	110			
Copper		0.0487	mg/L	0.010	97	90	110			
Zinc		0.0490	mg/L	0.010	98	90	110			



### **QA/QC Summary Report**

Client: Point Ruston LLC

Report Date: 09/04/09

Project: Tacoma Smelter Outfall Samples

Work Order: B09090107

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8						Analytica	al Run: I	CPMS202-B	_090903A
Sample ID:	QCS - 090602A,090609B,	Initial Calibrati	on Verificati	on Standard					09/03	3/09 12:52
Arsenic		0.0496	mg/L	0.0050	99	90	110			
Copper		0.0511	mg/L	0.010	102	90	110			
Zinc		0.0503	mg/L	0.010	101	90	110			
Method:	E200.8								Batch	: R135481
Sample ID:	LRB	Method Blank				Run: ICPM	S202-B_090903	8A	09/03	3/09 13:28
Arsenic		ND	mg/L	3E-05						
Copper		0.0001	mg/L	8E-05						
Zinc		0.0010	mg/L	0.0001						
Sample ID:	LFB	Laboratory Fo	rtified Blank			Run: ICPM	IS202-B_090903	BA	09/0	3/09 13:32
Arsenic		0.0493	mg/L	0.0050	99	85	115			
Copper		0.0517	mg/L	0.010	103	85	115			
Zinc		0.0509	mg/L	0.010	100	85	115			
Sample ID:	B09090123-002AMS	Sample Matrix	Spike	¥		Run: ICPM	IS202-B_090903	BA	09/0	3/09 16:25
Arsenic		2.59	mg/L	0.0050		70	130			Α
Copper		0.0514	mg/L	0.010	98	70	130			
Zinc		0.0510	mg/L	0.010	98	70	130			
Sample ID:	B09090123-002AMSD	Sample Matrix	Spike Dupl	icate		Run: ICPN	IS202-B_090903	3A	09/0	3/09 16:29
Arsenic		2.59	mg/L	0.0050		70	130	0.2	20	Α
Copper		0.0514	mg/L	0.010	99	70	130	0.1	20	
Zinc		0.0505	mg/L	0.010	98	70	130	0.9	20	

## Energy Laboratories Inc Workorder Receipt Checklist

-	 	

### Point Ruston LLC

B09090107

Login completed by: Leslie S. Cadreau		Date and Time F	Received: 9/1/2009 9:0	00 AM
Reviewed by: BL2000\kmcdonald		Red	ceived by: klb	
Reviewed Date: 9/1/2009 3:00:56 PM		Carr	ier name: FedEx	
		*		<u> </u>
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Present ✓	
Custody seals intact on sample bottles?	Yes 🗸	No 🗌	Not Present	
Chain of custody present?	Yes 🗸	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🔽	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌		
All samples received within holding time?	Yes ✓	No 🗌		
Container/Temp Blank temperature:	10°C			
Water - VOA vials have zero headspace?	Yes	No 🗌	No VOA vials submitted	$\checkmark$
Water - pH acceptable upon receipt?	Yes 🗸	No 🗌	Not Applicable	

Contact and Corrective Action Comments:

None

# OUTFALLS



**CHAIN OF CUSTODY RECORD** 

5219 N. Shirley St., Suite 100 Tacoma, WA 98407 Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO	PROJECT NAME				1	5/ /	11	///	
Towns Constant	ATT	90015150		RS	1/15	//	/ /		
TACOMASMELTER SAMPLERS (Signature)	POLIFALL	SAMPLES		CONTAINERS	124			/ /	
SAMPLE (Signature)	1			NTA	12	//	/ /	/ /	
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### ANALYTICAL SUMMARY REPORT

August 10, 2009

Tim Rusher Point Ruston LLC 5219 N Shirley St Ste 100 Tacoma, WA 98407

Workorder No.: B09080199

Project Name: Tacoma Smelter OCF-Leachate

Energy Laboratories Inc received the following 1 sample for Point Ruston LLC on 8/4/2009 for analysis.

Sample ID Client Sample ID Collect Date Receive Date Matrix Test

B09080199-001 TSM080903 08/03/09 8:32 08/04/09 Aqueous Metals by ICP, Total Metals Preparation by EPA 200.2

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

AUG 13 2009



Client:

Point Ruston LLC

Project:

Tacoma Smelter OCF-Leachate

Lab ID:

B09080199-001

Client Sample ID: TSM080903

Report Date: 08/10/09

Collection Date: 08/03/09 08:32

DateReceived: 08/04/09

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	5.2	mg/L		0.1		E200.7	08/07/09 21:47 / tao



### **QA/QC Summary Report**

Client: Point Ruston LLC

Report Date: 08/10/09

Project: Tacoma Smelter OCF-Leachate

Work Order: B09080199

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7								Bat	ch: 40523
Sample ID:	MB-40523	Method Blank				Run: ICP20	01-B_090805A		08/06	6/09 02:05
Arsenic		ND	mg/L	0.01						
Sample ID:	LCS5-40523	Laboratory Co	ntrol Sample			Run: ICP20	01-B_090805A		08/06	6/09 02:40
Arsenic		0.451	mg/L	0.010	90	85	115			
Sample ID:	B09080066-001AMS5	Sample Matrix	Spike			Run: ICP20	01-B_090805A		08/06	3/09 03:27
Arsenic		0.967	mg/L	0.020	97	70	130			
Sample ID:	B09080066-001AMSD5	Sample Matrix	Spike Duplicate			Run: ICP20	01-B_090805A		08/06	6/09 03:31
Arsenic		1.06	mg/L	0.020	106	70	130	9	20	
Sample ID:	MB-40523	Method Blank				Run: ICP20	01-B_090807A		08/07	7/09 21:43
Arsenic		ND	mg/L	0.01						
Method:	E200.7						Analy	tical Ru	ın: ICP201-B	_090807
Sample ID:	ICV	Continuing Ca	libration Verification	on Standar	rd				08/0	7/09 10:32
Arsenic		2.39	mg/L	0.10	96	95	105			

# **Energy Laboratories Inc Workorder Receipt Checklist**

B0	90	80	1	99	

### Point Ruston LLC

Login completed by: Leslie S. Cadreau	729	Date and Time Received: 8/4/20	009 9:25 AM
Reviewed by: BL2000\kmcdonald		Received by: Isc	×
Reviewed Date: 8/5/2009 6:55:40 AM		Carrier name: FedE	X
Shipping container/cooler in good condition?	Yes 🗸	No Not Present	
Custody seals intact on shipping container/cooler?	Yes	No ☐ Not Present ☑	
Custody seals intact on sample bottles?	Yes 🗸	No Not Present	
Chain of custody present?	Yes 🗸	No 🗌	
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌	
Samples in proper container/bottle?	Yes 🗸	No 🗌	
Sample containers intact?	Yes 🗸	No 🗌	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌	
All samples received within holding time?	Yes 🗸	No 🗌	
Container/Temp Blank temperature:	13°C		
Water - VOA vials have zero headspace?	Yes	No Mo VOA vials subr	nitted 🗸
Water - pH acceptable upon receipt?	Yes 🗸	No Not Applicable	

Contact and Corrective Action Comments:

None



### **CHAIN OF CUSTODY RECORD**

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COCForm	-8/07				15			Seul or	5	(	7						Signature	
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# **SPECTRA** Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

AUG 19 2009

08/14/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received:

08/03/2009

Spectra Project:

2009080018

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8189623	1	Arsenic	0.11	 μg/m3	SW846 6010B	Filter	07/27/2009
8189623	1	Lead	0.06	μg/m3	SW846 6010B	Filter	07/27/2009
8189622	2	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/27/2009
8189622	2	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/27/2009
8189621	3	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/27/2009
8189621	3	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/27/2009
8189620	4	Arsenic	0.23	μg/m3	SW846 6010B	Filter	07/28/2009
8189620	4	Lead	0.17	μg/m3	SW846 6010B	Filter	07/28/2009
8189619	5	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/28/2009
8189619	5	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/28/2009
8189618	6	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/28/2009
8189618	6	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/28/2009
8189616	7	Arsenic	0.06	μg/m3	SW846 6010B	Filter	07/29/2009
8189616	7	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/29/2009
8189615	8	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/29/2009
8189615	8	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/29/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

# SPECTRA Laboratories

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08/14/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received:

08/03/2009

Spectra Project: 2009080018

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8189614	9	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/29/2009
8189614	9	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/29/2009
8189613	10	Arsenic	0.06	μg/m3	SW846 6010B	Filter	07/30/2009
8189613	10	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/30/2009
8189612	П	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/30/2009
8189612	11	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	07/30/2009
8189611	12	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/30/2009
8189611	12	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	07/30/2009
8189610	13	Arsenic	0.17	μg/m3	SW846 6010B	Filter	07/31/2009
8189610	13	Lead	0.14	$\mu g/m3$	SW846 6010B	Filter	07/31/2009
8189609	14	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/31/2009
8189609	14	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	07/31/2009
8189608	15	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/31/2009
8189608	15	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	07/31/2009
8189617	16	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	07/28/2009
8189617	16	Lead	< 0.05	μg/m3	SW846 6010B	Filter	07/28/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

PAGE 10F 2

CHAIN OF CUSTODY RECORD 2009 080018



5219 N. Shirley St., Suite 100 Phone: 253-752-2185

Tacoma, WA 98407 Fax: 253-752-7083

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727/09	59		V		8189623	101-00000										
7/27/129	OCE- M		V		8189622			~								
7/27/09	OCF-NW		V		8189671		1	V								
7/28/19	Sa.		V		8189620		1	/								
71/28/09	CCF-VI		V	L	8189619			1								
7/28/09	DCF-NW		V		8189618		1	V								
7/29/09	36		V		8189616		1	V-								
7/29/09	CCF-VI		V		8189615		)	1								
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7/30/0	Sq		1	1	8189613		1	~								
1/30/09	CCF-VI		V		8189613		personal	V								
7/30/8	OF-NW		V	1_	8189611		· Constitute	V								
7/3/109	\$SG		V		8189610		delicate.	V								
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# PAGE 20F2 2009080018



Phone: 253-752-2185

Fax: 253-752-7083

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CHAIN OF CUSTODY RECORD

# SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

AUG 1 9 2009

08/14/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received:

08/10/2009

Spectra Project: 2009080135

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8189607	1	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/03/2009
8189607	I	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/03/2009
8189606	2	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/03/2009
8189606	2	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/03/2009
8189605	3	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/03/2009
8189605	3	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/03/2009
8189604	4	Arsenic	0.08	μg/m3	SW846 6010B	Filter	08/04/2009
8189604	4	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/04/2009
8189603	5	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/04/2009
8189603	5	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/04/2009
8189602	6	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/04/2009
8189602	6	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/04/2009
8189601	7	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/05/2009
8189601	7	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/05/2009
8189900	8	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/05/2009
8189900	8	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/05/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 2

# **SPECTRA** Laboratories

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08/14/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received:

08/10/2009

Spectra Project:

2009080135

							Date
Client ID_	Spectra #	Analyte	Result	<u>Units</u>	Method	Matrix	Sampled
8189899	9	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/05/2009
8189899	9	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/05/2009
8189897	10	Arsenic	0.06	μg/m3	SW846 6010B	Filter	08/06/2009
8189897	10	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/06/2009
8189896	11	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/06/2009
8189896	11	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/06/2009
8189895	12	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/06/2009
8189895	12	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/06/2009
	52792	1550 12	121 W20	N 1921	72111212 52122		00/05/0000
8189894	13	Arsenic	0.19	μg/m3	SW846 6010B	Filter	08/07/2009
8189894	13	Lead	0.12	μg/m3	SW846 6010B	Filter	08/07/2009
8189893	14	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/07/2009
				10 000			
8189893	14	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/07/2009
8189892	15	Arsenic	< 0.05	$\mu g/m3$	SW846 6010B	Filter	08/07/2009
8189892	15	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/07/2009
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8189898	16	Arsenic	< 0.05	$\mu g/m3$	SW846 6010B	Filter	08/05/2009
8189898	16	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/05/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

PAGE 1072 200080135

## POINT RUSTON

### CHAIN OF CUSTODY RECORD

5219 N. Shirley St., Suite 100 Tacoma, WA 98407 Phone: 253-752-2185 Fax: 253-752-7083

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8/3/09	M-VI		V		8189606			V									
8/3/09	DCF-NW		1		8189605		1	V									
8/4/19	SG		V		8189604		ì	V									
8/4/69	CCF-VI		V		8189603		1	1									
97110	DCF-NW		V		81891002		1	1									
15/09	SG		V		8189601		1	1									
8/5/19	OF-VI		V		8193900		Promise	/									
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8/6/9	SG		V		8193897		- Contract	1									
36109	OCF-VI		~		8193896			V									
869	OCF-NW		1		8193895		1	1									W
8/7/09	SG		V		8193894		1	1									
8/7/09	OCF. VI		V		8193893		1	/									
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PAGE 20 F2 2009 08 0135

# POINT

### CHAIN OF CUSTODY RECORD

5219 N. Shirley St., Suite 100 Tacoma, WA 98407 Phone: 253-752-2185 Fax: 253-752-7083

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SAMPLER	RS: (Signatur	re)	1	101		2/2			OF CONTAINERS	/	R	9/	/ /	/ /	/ /	/		REMARKS	
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# SPECTRA Laboratories

2221 Ross Way • Tacoma. WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

RECEIVED SEP 01 2009

08/28/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-Vol)

Date Received:

08/17/2009

Spectra Project: 2009080272

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8193891	1	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/10/2009
8193891	I	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/10/2009
8193890	2	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/10/2009
8193890	2	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/10/2009
8193889	3	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/10/2009
8193889	3	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	08/10/2009
8193888	4	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/11/2009
8193888	4	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/11/2009
8193887	5	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/11/2009
8193887	5	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/11/2009
8193886	6	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/11/2009
8193886	6	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/11/2009
8193885	7	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/12/2009
8193885	7	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/12/2009
8193884	8	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/12/2009
8193884	8	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/12/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 2

### **SPECTRA** Laboratories

08/28/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-Vol)

Date Received:

08/17/2009

Spectra Project: 2009080272

Client ID	Spectra #	Analyte	Result	_Units_	Method	Matrix	Date Sampled	
8193883	9	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/12/2009	
8193883	9	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/12/2009	
8193882	10	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	
8193882	10	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	
8193881	11	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	
8193881	11	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	
8193880	12	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	
8193880	12	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	
8193878	13	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/14/2009	
8193878	13	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/14/2009	
8193877	14	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/14/2009	
8193877	14	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/14/2009	
8193876	15	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/14/2009	
8193876	15	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/14/2009	
8193879	16	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	
8193879	16	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/13/2009	

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 2 of 2

TAGE 1:012 2009:080272

CHAIN OF CUSTODY RECORD



5219 N. Shirley St., Suite 100 Tacoma, WA 98407 Phone: 253-752-2185 Fax: 253-752-7083

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PAGE 20+2 2009080272

CHAIN OF CUSTODY RECORD



5219 N. Shirley St., Suite 100 Tacoma, WA 98407 Phone: 253-752-2185

Fax: 253-752-7083

PROJ. NO				DJECT	Γ NAME			-		. /	/	/	. /			/ /
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COCForn	- 8/07											I JACC	epieu	Decil	neu	Signature

08/28/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received: 08/24/2009

Spectra Project: 2009080375

Client ID_	Spectra #	Analyte	1	Result	Units	Method	Matrix	Date Sampled
8193875	1	Arsenic	_	0.12	 μg/m3	SW846 6010B	Filter	08/17/2009
8193875	1	Lead		0.07	μg/m3	SW846 6010B	Filter	08/17/2009
8193874	2	Arsenic		< 0.05	μg/m3	SW846 6010B	Filter	08/17/2009
8193874	2	Lead	,	< 0.05	μg/m3	SW846 6010B	Filter	08/17/2009
8193873	3	Arsenic		< 0.05	μg/m3	SW846 6010B	Filter	08/17/2009
8193873	3	Lead		< 0.05	μg/m3	SW846 6010B	Filter	08/17/2009
8193872	4	Arsenic		0.11	μg/m3	SW846 6010B	Filter	08/18/2009
8193872	4	Lead		0.09	μg/m3	SW846 6010B	Filter	08/18/2009
8193871	5	Arsenic		0.05	μg/m3	SW846 6010B	Filter	08/18/2009
8193871	5	Lead	,	< 0.05	μg/m3	SW846 6010B	Filter	08/18/2009
8193870	6	Arsenic	,	< 0.05	μg/m3	SW846 6010B	Filter	08/18/2009
8193870	6	Lead		< 0.05	μg/m3	SW846 6010B	Filter	08/18/2009
8193869	7	Arsenic		< 0.05	μg/m3	SW846 6010B	Filter	08/19/2009
8193869	7	Lead		< 0.05	μg/m3	SW846 6010B	Filter	08/19/2009
8193868	8	Arsenic		< 0.05	μg/m3	SW846 6010B	Filter	08/19/2009
8193868	8	Lead		< 0.05	μg/m3	SW846 6010B	Filter	08/19/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 2

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

08/28/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received: 08/24/2009

Spectra Project: 2009080375

Client ID_	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
*			·				
8193867	9	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/19/2009
8193867	9	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/19/2009
8193866	10	Arsenic	0.14	μg/m3	SW846 6010B	Filter	08/20/2009
8193866	10	Lead	0.08	μg/m3	SW846 6010B	Filter	08/20/2009
8193865	11	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/20/2009
8193865	11	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/20/2009
8193864	12	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/20/2009
8193864	12	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/20/2009
8193863	13	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/21/2009
8193863	13	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	08/21/2009
8193862	14	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/21/2009
8193862	14	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	08/21/2009
8193861	15	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/21/2009
8193861	15	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/21/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 2 of 2

PAGE 10FI

#### CHAIN OF CUSTODY RECORD

COCForm - 8/07

2007080375



Signature

Phone: 253-752-2185 Fax: 253-752-7083 PROJ. NO PROJECT NAME OF CONTAINERS SAMPLERS: (Signature) REMARKS COMP GRAB SAMPLE NUMBER DATE STA# TIME NO. W E-MAIL KESUCTS NIA TIMDERSINTRUSTON, COM Received by: (Signature) Lab Shipped via: FedEx, UPS Relinquished (Signature) Date/Time or Other Air Bill # Received by: (Signature) Remarks Relinquished (Signature) Date/Time Received for Laboratory by: (Signature) Date/Time Enclosed: Relinquished (Signature) Date/Time Parameter List with DTLs Cover Letter Split Samples: [ ]Accepted [ ]Declined\_

RI	<b>EC</b>	E	I	VED
	SEP	1	4	2009
BY:				

09/10/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received:

08/31/2009

Spectra Project: 2009090001

Client ID_	Spectra #	Analyte	Result	Units	Method	<u>Matrix</u>	Date Sampled
						Filter	08/24/2009
8193860	1	Arsenic	0.06	μg/m3	SW846 6010B	ritter	
8193860	1	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/24/2009
8193859	2	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/24/2009
8193859	2	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/24/2009
8193858	3	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/24/2009
8193858	3	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/24/2009
0175000	<i>5</i> 2			10			
8193856	4	Arsenic	< 0.05	$\mu g/m3$	SW846 6010B	Filter	08/25/2009
8193856	4	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/25/2009
8193855	5	Arsenic	< 0.05	ug/m3	SW846 6010B	Filter	08/25/2009
8193855	5	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/25/2009
8193854	6	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/25/2009
8193854	6	Lead	< 0.05	$\mu g/m3$	SW846 6010B	Filter	08/25/2009
0102052	7	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/26/2009
8193853				7			
8193853	7	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/26/2009
8193852	8	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/26/2009
8193852	8	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/26/2009
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SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a8/scj

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09/10/2009

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-vol)

Date Received:

08/31/2009

Spectra Project: 2009090001

Client ID_	Spectra #	_Analyte_	Result	_Units_	_Method_	Matrix	Date Sampled
8193851	9	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/26/2009
8193851	9	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/26/2009
8193850	10	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/27/2009
8193850	10	Lead	< 0.05	μg/m3 μg/m3	SW846 6010B	Filter	08/27/2009
8193849	11	Arsenic	< 0.05	$\mu$ g/m3	SW846 6010B	Filter	08/27/2009
8193849	11	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/27/2009
8193848	12	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/27/2009
8193848	12	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/27/2009
8193847	13	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/28/2009
				11 (77)			
8193847	13	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/28/2009
8193846	14	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/28/2009
8193846	14	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/28/2009
8193845	15	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/28/2009
8193845	15	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/28/2009
0102057	16	Augonio	< 0.05		CW846 6010D	Eller	08/24/2000
8193857	16	Arsenic	< 0.05	μg/m3	SW846 6010B	Filter	08/24/2009
8193857	16	Lead	< 0.05	μg/m3	SW846 6010B	Filter	08/24/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

PAGE 10F2 204096001

#### CHAIN OF CUSTODY RECORD



5219 N. Shirley St., Suite 100 Tacoma, WA 98407 Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO	)		PRO	JECT	NAME	1.			1	/	1	/	1	1			
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8/24/69	SG	VINTER AND LINE WHEN THE	V.		8193860			1									
8/24/09	OCF-VI		1		8193859		1	V									
8/24/09	O(F. NW		V		8193858		- Channel	V									
8/25/69	SG		1		8193856	341	1	V									
8/25/09	DCF-V)		1		8193855			V									
8/25/09	OCF-NW		1		8193854		1	$\checkmark$								•	
8/26/09	9G		V		8173863			V									
8/21/09	CA-VI		1		8 143860		1	V									
82609	DCF-NW		1		8193851		1	1									
8/27/89	SG		V		819385Ø		al on the	4									
8/27/09	OCF-VI		4		8193849		1	V									
8/27/09	DCT-NW		V		8193848			1									
8/28/59	56		V		8193847		1	V									
9386	W-TW		1		8193846		1	1									
198ck	TE-MA		N		8193845		1	V									
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PAGE 20 F2 20090001

CHAIN OF CUSTODY RECORD

5219 N. Shirley St., Suite 100 Tacoma, WA 98407 Phone: 253-752-2185 Fax: 253-752-7083

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Relinquish	ed (Signatur	e)			//	Date/Time	1100	Received by:	(Signa	ture)			Rema	rks	11	- 1	All Dill#_		-
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Relinquish	ed (Signatui	re)				Date/Time		Received for	Labora	atory by	y: (Sign	ature)	Da	ate/Tim	ne	Enclo		List with DTI -	
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August 19, 2009

Mr. Kevin L. Rochlin Remedial Project Manager U.S. Environmental Protection Agency, Region 10 1200 Sixth Avenue, ECL-111 Seattle, WA 98101

RE: Notification of Exceedance

OU 02, Former Asarco/Tacoma Smelter Site

Dear Mr. Rochlin:

Please be advised that our Hi-Vol air monitor sampler near the South Gate recorded an Arsenic concentration level of 0.230 µg/m³ during its operation from July 28, 08:19am through July 29, 08:45am. The report was received via mail on August 18th.

The following observations were noted during this time period:

#### Thursday July 28, 2009; Sample Times (08:19am – midnight)

#### Weather:

Low 67 degrees / High 94 degrees; NE winds 4 mph with gusts to 8 mph; no measurable precipitation.

#### On-site activity:

No significant on-site activity was conducted in the vicinity of the S. Gate.

No subcontractors were working on building construction during this time.

No delivery or visitor activities were conducted via the South Gate.

Site crews worked at the North end of the site removing the haul road from Stack Hill.

Dust control measures were performed during this operation.

Nuprecon exported concrete stock piles from near the North Outfall area via the North Gate, utilizing the tunnel bypass route (See Attached) to Ruston Way.

MRC imported RA soils from Ruston Way, utilizing the tunnel bypass; however they continued down Pearl to 54th Street, using the 54th Street Gate.

#### Off-site activity:

The nearest notable offsite activity was MRC's remediation activities along Ruston Way, south of the site. MRC was observed to be using water for dust control. No notable dust was seen being generated from their work area.

#### Friday July 29, 2009; Sample Times (midnight – 08:45am)

#### Weather:

Low 69 degrees / High 102 degrees; NNE winds 3.5 mph with gusts to 6 mph; no measurable precipitation.

#### On-site activity:

No significant on-site activity was conducted in the vicinity of the S. Gate.

No subcontractors were working on building construction during this time.

Site crews worked at the North end of the site removing the haul road from Stack Hill.

Dust control measures were performed during this operation.

Exposure evaluations were conducted during work activities. No exceedances were reported for the Personal Air Monitoring.

Nuprecon had ceased exporting and performed decontamination of equipment near the North Outfall area.

MRC imported RA soils from Ruston Way utilizing the tunnel bypass; however they continued down Pearl to 54th Street, using the 54th Street Gate.

#### Off-site activity:

The nearest notable offsite activity was MRC's remediation activities along Ruston Way south of the site. MRC was observed to be using water for dust control. No notable dust was seen being generated from their work area.

On-site areas near the S. Gate location are capped with clean materials or covered with vegetation. No visible dust was generated on-site by vehicle traffic or winds during the sample period. A possible source is from the offsite dirt areas along Ruston Way.

We also note that while the action evaluation trigger level of  $0.2~\mu g/m^3$  was exceeded, the result is well below the regulated action level of  $0.5~\mu g/m^3$ . We will continue to check our Hi-Vol results and inform you of any additional exceedances.

If you have any questions, please contact me at (253) 752-2185 extension 240, or via email to eric@mcconstruction.com.

Sincerely,

Eric L. Pilcher, P.E.

L: 2/2-

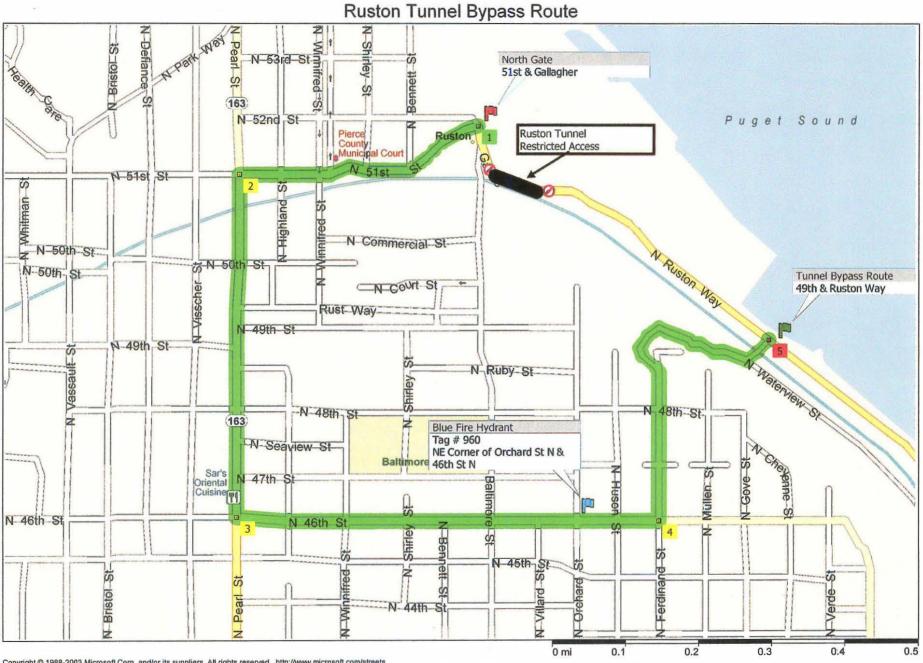
RA Coordinator/Development Project Engineer

cc:

Loren Cohen, Point Ruston Gary Pedersen, Point Ruston

encl.

### Ruston Tunnel Bypass Route



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© Copyright 2002 by Geographic Data Technology, Inc. All rights reserved. © 2002 Navigation Technologies. All rights reserved. This data includes information taken with permission from Canadian authorities © 1991-2002 Government of Canada (Statistics Canada and/or Geomatics Canada), all rights reserved.

RECEIVED

AUG 26 2009

BY:\_\_

08/25/2009

Point Ruston

5219 N. Shirley St.,

Suite 100

Tacoma, WA 98407

Project:

LID/2008 MRC Imported Soils

Sample Matrix: Air Cassette

Date Sampled:

08/19/2009

Date Received:

08/20/2009

Spectra Project:

2009080336

Client ID	Spectra #	Analyte	Result	Units	Method
081909-719	I	Arsenic	0.19	μg/m3	SW846 6020A
081909-719	1	Lead	0.30	$\mu g/m3$	SW846 6020A
081909-123	2	Arsenic	0.043	μg/m3	SW846 6020A
081909-123	2	Lead	0.090	μg/m3	SW846 6020A
081909-181	3	Arsenic	0.043	μg/m3	SW846 6020A
081909-181	3	Lead	0.066	μg/m3	SW846 6020A
081909-646	4	Arsenic	< 0.004	μg/m3	SW846 6020A
081909-646	4	Lead	0.029	μg/m3	SW846 6020A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/scj

Page 1 of 1



#### CHAIN OF CUSTODY RECORD

Phone: 253-752-2185 Fax: 253-752-7083 PROJECT NAME PROJ. NO OF CONTAINERS SAMPLERS: (Signature) REMARKS COMP GRAB SAMPLE NUMBER DATE STA# TIME NO. PLEASE E-MAIL RESULTS TO TIM 2 @ POINT RUSTON. COM Shipped via: FedEx, UPS Relinquished (Signature) Date/Time Received by: (Signature) or Other

Date/Time

Date/Time

Received by: (Signature)	Remarks	
Received for Laboratory by: (Signature)	Date/Time	Enclosed:  Parameter List with DTLs  Cover Letter
	Split Samples: [ ]Accepted [ ]Dec	Signature

Relinquished (Signature)

Relinquished (Signature)



Weekly Site Inspection Report No. 2009 - 0800 Week of 8 2 - 8 , 2009 Inspector TIM Rusher?

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION		VERA			EED	COMMENTS/OBSERVATIONS
AREA	CO	NDIT	ION	REP	AIR?	
Gates:	(2)	P	n	37	(3)	
North (electric)	(G)	F	P	Y	(M)	
South (electric) Pond		F	P	Y	Ŋ	
Peninsula	(G)	F	P	Y	M	
	<u>(G</u> )	F	P	Y		
SYTA (Other) ELECT	G	F	P	Y	(N)	
Signage:	3					¥
Gates	<b>@</b>	F	P	Y	(M)	
Perimeter	0	F	P	Y	(M)	
Safety	(G)	F	P	Y	(A)	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	@	F	P	Y	N	
51st & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y		PELLEND EXCAVATING USING STRUKTHILL FOR
(Other)	G	F	P	Y		PARKING EQUIDMENT. DIESELSDILLS NOTED ON STREET
BMPs:					18.5	THE THE STATE OF T
Berms	(G)	F	P	Y	(N)	
Waddles	(a)	F	P	Y	1	
Silt Fence	0	F	P	Y	(1)	
(Other)	G	F	P	Y	N	
Strom drains clean:	-			<u> </u>		
Lower Site	(G)	F	P	Y	(1)	
Stack Hill	G	Ē	P	Y	N	(26) 5 × 0 = P × × × 5 6 × = × × 1 × 1 × × ×
	U		Г	1	(IV)	CB. @ ENDOFBALTIMORE GETTING DIRTY
Stockpiles:	(0)	r		37	(3)	
Envirotac II Plastic	(G)	F	P	Y	00	
D. C.	0	F	P	Y	(M)	
Packed	10/	F	P	Y	(3)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(1)	
Excavation area	(G)	F	P	Y	(M)	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	<b>G</b>	F	P	Y	(M)	
Zone Separation	0	F	Р	Y	N	
(Other)	G	F	P	Y	N	

## Weekly Site Inspection Report No. 2009-0802 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION I			ED AIR?	COMMENTS/OBSERVATIONS	
Docks:  Barriers  Signs (Other)	(G) (G) (G)	F F	P P	Y Y Y	N N	
Cameras: STACK HIL #32	G G G	F F	P P	Y Y Y	N N	
Health & Safety Plans: Site Superintendant Construction Super. Other	G G G	FFF	P P P	Y Y Y	N N N	NEED TO FINISH U.5

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: PELLENG EXCAVATING IS DOING EXCAUATION WORK FOR A PRIVATE HOME ON COURT STREET 1/2 BLOCK WEST OF BACTIMORE, THEY HAVE BEEN USING STACK HILL AS A TURN AROUND FOR DUMP TRUCKS HTRAILERS. AT TIMES THEY HAVE BEEN DRIVING OVER SIDEWALKS + CURBS. SEVERAL FUEL SAWS MAY CAUSE PREMATURE BREAKDOWN OF ASPHALT. OBSERVATIONS REPORTED TO ROD McGRIEN WHO IS MANAGING STACK HILL.

#### WEATHER:

Day of Week	Summary of Weather Conditions
Sunday 8/2	6 92 SSW WIND 43 MDH/GUST LEMDH, NO PRECIPITATION
Monday 3	56/84SW WIND LEMOH GUST 9MPH, NO PRECIPITATION
Tuesday 4	57/765W WIND 58 MOH GUSTIOMPH, NU PRECIPITATION
Wednesday 5	54 72 SW WIND 4 MPH GUST 8 MPH, NO PRECIDITATION
Thursday (Q	56/47 SSW WIND 25 MOH GUST GMOH, NO PRECIPITATION
Friday	56/67 SW WIND LEMONIAUT IMPH NO PRECIDITATION
Saturday 🖇	53/41 SW WIND HMOH/GUST 8 MPH, NO PRECIDITATION

I certify	that this report is t	rue, accurate and complete, to the best of my knowledge and belief.
	8/10/09	SIGNED:
	, , ,	
	Title/Qua	lification of Inspector: GUSTRUCTION OVERSIGHT / HEALTH + SAFETY OFFICER

Ruston

Weekly Site Inspection Report No. <u>2009</u> - <u>0809</u>
Week of, <u>819 - 15, 2009</u> Inspector <u>Tim Rushers</u>
Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

AREA			L	1,12	ED	COMMENTS/OBSERVATIONS
	CON	TIDI	ION	REP	AIR?	COMMENTS/OBSERVATIONS
Gates:						
North (electric)	<b>©</b>	F	P	Y	83	
South (electric)	(G)	F	P	Y	(1)	
Pond	(G)	F	P	Y	N	
Peninsula	(G)	F	P	Y	(N)	
54 Th (Other) elect.	<b>©</b>	F	P	Y	(1)	
Signage:						
Gates	(G)	F	P	Y	N	
Perimeter	(G)	F	P	Y	M	
Safety	(G)	F	P	Y	N	
(Other)	(G) (G) (G)	F	P	Y	N	
Public Streets:						
Ruston Way	(G)	F	P	Y	(N)	9
51st & Gallagher	(G)	F	P	Y	BB	
Stack Hill	666	F	P	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	<b>©</b>	F	P	Y	(Ñ)	
Waddles	G	F	P	Y	0	
Silt Fence	6	F	P	Y	N	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	<b>©</b>	F	P	Y	(1)	/
Stack Hill	G	(F)	P	Y	(E)	WILL NEED CLEANING 500 N (STILL OKMA)
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	(G)	F	P	Y	M	
Packed	(G)	F	P	Y	N	
Grass	(G)	F	P	Y	N	
Dust:						
Traffic areas	(G)	F	P	Y	N	
Excavation area	(G)	F	P	Y	N	
(Other)	Ğ	F	P	Y	N	
Fencing:						
Site Perimeter	(G)	F	P	Y	Ø	
Zone Separation	(G)	F	P	Y	N	
(Other)	G	F	P	Y	N	

# Weekly Site Inspection Report No. 2009-0809 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA		VERANDIT		0.000,000	EED AIR?	COMMENTS/OBSERVATIONS
Docks:	COI	IIUF	ION	REP	AIK!	
Barriers	(G)	F	P	Y	(1)	
Signs	6	F	P	Y	10	
(Other)	G	F	P	Y	N	
Cameras:	-				11	
STACKIHIN #32	(G)	F	P	Y	N	
	G	F	P	Y	N	
	G	F	P	Y	N	
Health & Safety Plans:						
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	
		G=(	Good	F=Fai	r P=Po	or Y=Yes N=No
Misc. notes:						
			-			
χ.						
WEATHER:						
Day of Week					Sumn	nary of Weather Conditions
Sunday Q	0/7/2	SN	IWI	uns	5MI	OH/GUST 10 MPH, NO PRECIPITATION
Monday   D	741	Carl		100	115	pH GUST 7 MPH, NO PRECIPITATION
	~ 111					
Tuesday	1119	SW	NWI	NPS	SME	OH GUST 5 MPH, TRECID MORNING 0.08"
Wednesday 3 5	1/4	NW	EWI	NOS	4 MG	OH GUST 10 MOH, PRECID O.2" MORNING
Thursday 135	lellele	SU	Ju	JIND	55 m	IDHGUST 8 MPH, NO PRECIPITATION
Friday /4 5	113				~	OH GUST 8 MPH, NO PRECIPITATION
Saturday 5	- l++ .				^	DH GUST LANDH NO PRECIPITATION
certify that this report is	true,	accura	ate an	d com	plete, to	o the best of my knowledge and belief.
DATE: 8/17/69			S	IGNE	D.C.6	I Comment of the second of the
Title/Qu	nalifica	ation (	of Ins	oector:	CONST	RUCTION OVERSIGHT HENTH & SAFETY OFFICER



Weekly Site Inspection Report No. 2009-0816
Week of 816-22, 2009 Inspector Tim Rush ere
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION		VERA			EED	COMMENTS/OBSERVATIONS
AREA	CON	VDIT	ION	REP	AIR?	COMMISSIONOSSERVITES
Gates:						
North (electric)	<b>©</b>	F	P	Y	(M)	
South (electric)	(G)	F	P	Y	N	NEEDS GREASEN (STARTING TO SQUEAK
Pond	000	F	P	Y	N	
Peninsula	(G)	F	P	Y	(N)	
54 1 (Other) ELECT.	G	F	P	Y	(1)	
Signage:						
Gates	(G)	F	P	Y	(B)(Z)	
Perimeter	(Ç)	F	P	Y		
Safety	(G)	F	P	Y	0	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	(G) (G) (G)	F	P	Y	(N)	
51st & Gallagher	(G)	F	P	Y	3	
Stack Hill	(G)	F	Р	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	M	
Silt Fence	0	F	P	Y	(1)	
(Other)	G	F	P	Y	N	
Strom drains clean:				_	- 1	
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	<b>G</b>	F	P	Y	(N)	
	9	1	1	1	(11)	
Stockpiles: Envirotac II	(E)	F	P	Y	(NI)	
Plastic	(A)	F	P	Y	(R)	
Packed	8	F	P	Y	(1)	
Grass	(3)	F	P	Y	(N)	
	(9)	Г	ľ	ľ	(11)	
Dust:	(2)	Б		37	(3)	
Traffic areas Excavation area		F	P	Y	(N)	
		F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Fencing:					00	
Site Perimeter	99	F	P	Y	(M)	
Zone Separation		F	P	Y	(M)	
(Other)	G	F	P	Y	N	

# Weekly Site Inspection Report No. 2009 - PS 16 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION	OVERAL	NEED	COMMENTS/OBSERVATIONS
AREA	CONDITION	REPAIR?	O MINIDI (18/0 B B B A VIII 10 1.0
Docks: Barriers	(G) F P	y (a)	
Signs	(G) F P	Y (N)	
(Other)	G F P	YN	
Compage	9	,	
STACK H.L. # 32	G F P	Y (N)	
	G F P	Y N	
	G F P	Y N	
Health & Safety Plans:			
Site Superintendant Construction Super.	G P P	YNN	NEEDS V.S COMPLETED
Other	G F P	YNN	
The Section of Control		F=Fair P=Po	oor Y=Yes N=No
	G G004	I I all I I C	7 165 17 170
Misc. notes:			
EATHER:			
Day of Week		Sumn	nary of Weather Conditions
Sunday 16	54 13NW n	INDS 3M	PHGUST LOMPH, NO PRECIDITATION
Monday [ ] 5	OHO NE WI	NOS 3M	AH GUST SMAH, NO PRECIPITATION
Tuesday   8	18/80 NNE IN		1// ~
Wednesday []	1/4	- 11 "	12H/GUSTLEMOH, NO PRECIDITATION
Thursday 20 6	0/77 SW WIL	-	OHIGUETI OMPH, NO PRECIPITATION
Friday a)	OHI SSW WI	NOS 5N	10H/GUST 8 MOH, NO PRECIDITATION
Saturday 22 5	59 142 NW	LZGNIU	MOHIGUST LEMOH, NO PRECIPITATION
certify that this report is	s true, accurate an	d complete, t	o the best of my knowledge and belief.
ATE: <u>8/24/ø9</u>	S	SIGNED:	
Title/O	ualification of Ins	nector: (o.v.s	TRUCTON OVORSHOHT HEALTH & SAFETU OFFICER



Weekly Site Inspection Report No. QUID - 0823
Week of 8/23-29,2009 Inspector Tim Rusher
Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION	70	VERA	AL.	NE	EED	COMMENTS/OBSERVATIONS
AREA	CON	TIDI	ION	REP	AIR?	COMMENTS/OBSERVATIONS
Gates:						
North (cleetric)	(G) (G)	F	P	Y	(N)	
South (electric)	(G)	F	P	Y	N	
Pond	(G)	F	P	Y	(N)	
Peninsula	G	F	P	Y	W	
54Th (Other) ELECT.	<b>G</b>	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	N	
Perimeter	(G)	F	P	Y	N	ADDED NOTRESDASS/FISH/HUNT/VIOLATORS PROSEE
Safety	(G)	F	P	Y	B	ADDED NOTRESPASS/FISH/HUNT/VIOLATORS PROSEC. SIGNS ALONG WATER AT S. END.
(Other)	G	F	P	Y	N	SIENS IIICONS WHITE III SIEND
Public Streets:						
Ruston Way	(G)	F	P	Y	(Ñ)	
51st & Gallagher	(G) (G)	F	Р	Y	N	
Stack Hill	(G)	F	Р	Y	(N)	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	Р	Y	N	
Silt Fence	<u>G</u>	F	P	Y	(N)	
(Other)	G	F	P	Y	N	- A
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(6)	F	P	Y	N	
Packed	(G)	F	P	Y	(10)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G) (G)	F	P	Y	N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	(G)	F	P	Y	W	MOVED TEMP FENCE @ S. END TO ENCOMPASS
Zone Separation	(G)	F	P	Y	N	MOVED TEMP FENCE @ S. END TO ENCOMPASS METER POLE.
(Other)	G	F	P	Y	N	

### Weekly Site Inspection Report No. Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?		COMMENTS/OBSERVATIONS	
Docks: Barriers Signs (Other)	© G G	F F	P P P	Y Y Y	N (Z)	
Cameras: 57ACKHILL #32	G G G	F F	P P	Y Y Y	N N N	
Health & Safety Plans: Site Superintendant Construction Super. Other	G G G	F F	P P	(Y) (Y) Y	N N N	V. 5 IN PROGRESS FINAL EDITS

Misc. notes: WEATHER: Day of Week **Summary of Weather Conditions** Sunday Monday Tuesday Wednesday Thursday Friday Saturday I certify that this report is true, accurate and complete, to the best of my knowledge and belief. DATE: SIGNED: Title/Qualification of Inspector: CONSTRUCTION OVERSIGHT / NEALTH + SAPERY OFFICER